



WP12 Closing Remarks

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WP12 2nd Annual Review Meeting, DESY



- Many thanks to our DESY hosts for the excellent hospitality!
 - Nicoleta, Ruth and Reinhard particularly.
 - Plus all of the DESY tour guides – *it's really impressive to see the progress being made for XFEL!*



- Many thanks to all Task Leaders and Speakers for a series of really impressive talks!
- Really enjoyed this second review and the fact we are already generating significant results!

Thank You!
😊



Impressive Progress!

- **Task 12.2 SRF Thin Films**
 - First Nb₃Sn samples generated at CERN, refined deposition procedure being developed.
 - Plasma Enhanced ALD process with improved thermal budget demonstrated with AlN @ INP.
 - QPR tested to high H_{pk} @ JLab, tests being confirmed at HZB, microphonics issues to be resolved, first test samples to be prepared.
 - First magnetometer system tests performed @ CEA with promising results for both single and multi-layers, error sources being evaluated.
- **Task 12.3 High Gradient NC**
 - CLIC crab cavity high power tested by ULAN to almost 2 times its design gradient with very low breakdown performance.
 - High efficiency benchmarked ‘kladistron’ design developed by CEA, >65% efficiency predicted, prototype being developed with Thales.
 - First high-resolution, WFM electronics prototype tested by PSI achieving 14µm resolution, preparing system for SwissFEL.
- **Task 12.4 SRF HOM Diagnostics**
 - HOM diagnostic resolution analysis identifying performance limits performed by UMAN/DESY, refinement underway.
 - Fully integrated cascaded model developed by UROS, results look very promising.
- **Task 12.5 RF Photocathodes**
 - High QE performance Cu and Nb thin film photo-cathodes deposited and characterised at STFC.
 - Improved evaporation deposition process used by NCBJ to provide photo-cathodes for first SRF cavity tests at DESY.
 - First SRF cavity tests at DESY showed impressive p_k-field p...
underway.

Monographs:

Task 12.3 proposed by B Wooley (ULAN)

Task 12.4 submitted by T Fligsen (UROS)



Really nice to see

- Even more Phd and post-doc students providing high impact in a number of areas.
- First Phd students about to qualify:
 - Thomas Fligsen (UROS)
 - Ben Wooley (ULAN)
- Our results now generating journal publications, Accelerating News articles and Monographs:
 - Keep up the excellent work!



- **Many thanks to all for a very productive and enjoyable review!**
- **Looking forward to seeing many of you again for EUCARD-2 Annual Review in April @ ALBA.**
- **Have a safe journey home!**

감사합니다 Natick
Grazie Danke Ευχαριστίες Dalu
Thank You Köszönöm
Спасибо Dank Tack
谢谢 Merci Gracias Seé
ありがとう

Obrigado